1. Developed [Type] electrical products by studying customer requirements and researching and testing manufacturing and assembly methods and materials.
2. Created, aligned and optimized electrical instrumentation and testing equipment.
3. Created electrical schematics using AutoCAD Electrical Toolset.
4. Evaluated installed electrical equipment and systems to isolate faults and implement corrective actions.
5. Determined most effective approaches to new projects by reading and analyzing blueprints, drawings and sketches.
6. Retested electrical products and systems to determine whether modifications have desired effect.
7. Performed analysis to evaluate power needs for various systems, including [Type] and [Type] systems.
8. Validated small product and subsystem performance by performing analysis, simulation and laboratory testing.
9. Proposed electrical product and system modifications to improve quality and efficiency.
10. Conducted projects and performance presentations to clients and company executives.
11. Monitored manufacturing operations of electrical devices for compliance with safety protocols.
12. Performed in-depth electrical acceptance testing of completed hardware, including continuity and high-potential isolation testing.
13. Demonstrated role of neural networks in self-healing power distribution grids through thesis research.
14. Communicated with engineers and customers to discuss potential and existing engineering projects.
15. Identified specific cables, connectors, fuses, circuit breakers and other electrical devices required for installation of monitoring systems and weapons detection systems.
16. Implemented and approved design control procedures for electrical development in accordance with regulatory guidelines.
17. Calibrated [Type] and [Type] equipment on [Timeframe] basis, effectively reducing downtime.
18. Prepared technical documentation for operation, troubleshooting and maintenance of industrial systems.
19. Conducted field surveys and studied maps and diagrams to identify and correct power system problems, including [Type] and [Type] problems.
20. Prepared budgets by estimating materials, labor and construction costs.
21. Troubleshot electrical equipment problems such as electro-valves and sensors.
22. Improved methods for measurement, documentation and work flow management.
23. Evaluated [Type] electrical systems and components by designing and conducting research programs.
24. Monitored installation and operations to consistently meet rigorous customer requirements.
25. Identified root cause for [Type] failures through design review and [Action].
26. Used [Type] formulas to calculate current loads and short circuit currents.
27. Collaborated successfully with cross-functional development teams to design and manufacture new [Type] products.
28. Confirmed system and component capabilities by designing testing methods and testing properties.